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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR CONFIRMATION NO. APPLICATION NO. FILING DATE Yasuji Hiramatsu 218478US2PCT 6777 05/16/2002 10/030,123 **EXAMINER** 22850 7590 02/20/2004 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. GREENE, PERSHELLE L 1940 DUKE STREET PAPER NUMBER ART UNIT ALEXANDRIA, VA 22314

2826

DATE MAILED: 02/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		m
Office Action Summary	Application No.	Applicant(s)
	10/030,123	HIRAMATSU ET AL.
	Examin r	Art Unit
	Pershelle Greene	2826
The MAILING DATE of this communication a Period for Reply	npp ars on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of third will apply and will expire SIX (6) MON tute, cause the application to become A	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. SANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>06</u>	November 2003.	
2a) ☐ This action is FINAL. 2b) ☑ T	his action is non-final.	
3) Since this application is in condition for allow	vance except for formal matt	ers, prosecution as to the ments is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) Claim(s) <u>9-16</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) ☐ Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>9-16</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Exami	ner.	
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the corr	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreia) ☐ All b) ☐ Some * c) ☐ None of:	gn priority under 35 U.S.C. {	§ 119(a)-(d) or (f).
1. Certified copies of the priority docume		
2. Certified copies of the priority docume		· ·
3. Copies of the certified copies of the properties from the International Russian Inc.		received in this National Stage
application from the International Bure		raceived
* See the attached detailed Office action for a li	ist of the certified copies not	receiveu.
Attachment(s)		

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

6) Other: ___

5) Notice of Informal Patent Application (PTO-152)

Application/Control Number: 10/030,123

Art Unit: 2826

Serial Number: 10/030123

Attorney's Docket #: 218478US2PCT

Filing Date: 5/16/2002

Applicant: Hiramatsu et al. Examiner: Pershelle Greene

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e)
2. Claims 9-16 are being rejected under 35 U.S.C. 102(x) as being anticipated by Uchiyama et al. (U.S. Patent # 6,534,751).

As to claim 9, Uchiyama et al. shows, referring to figure 7, a ceramic substrate 2 having a conductor layer 5 formed inside and there is a supporting case 11. There is a connection between the conductor layer 5 and the external terminal 61. The manner in which the connection between the conductor layer and the external terminal is performed is not being given any patentable weight.

As to claim 10, Uchiyama et al. discloses using an elastic body to make connections between the terminal and other conductor layers.

As to claims 11 and 13, the connection is made through a non-oxidizable metal layer 6.

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As to claims 12 and 14-16, the connection between the conductor layer and the external terminal is performed on a face of the substrate opposite the face for processing the semiconductor.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pershelle Greene whose telephone number is 703-305-3870. The examiner can normally be reached on M-F 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 703-308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

PLG February 8, 2004

> NATHAN J. FLYNN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800